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Thomas, E. Floyd—*Preliminary Operation of TVA's Cumberland Steam Plant*, Amer. Pwr. Conf. (W. Hosali, N. Krick, M. Salm, Z. S. Stys and E. M. Griffin) .. July 1973 36

Turbak, Michael S.—*Pre-service and In-service Testing of Nuclear Reactor Coolant Systems*, Amer. Pwr. Conf. ..... July 1973 38

Turner, D. W.—*NO_x Emissions from Industrial Boilers: Potential Control Methods.* (C. W. Siegmund) ..... Oct. 1973 24

Ulmer, R. C.—*Controlling Emissions from Fossil-Fueled Power Plants.* (E. M. Powell) ..... Jan. 1974 24

Valentin, Jr., John E. C.—*Steam Power Plant Clinic—Part 77.* (I. J. Karassik) . Sept. 1973 15

Valentin, Jr., J. E. C.—*Steam Power Plant Clinic—Part 77.* (I. J. Karassik) . Jan. 1974 35

Vaughan, L. H.—*Current Practices—Factors Influencing Need for Chemical Cleaning Boilers*, Amer. Pwr. Conf. (I. B. Dick, J. S. Beecher and R. W. Lane) .. Aug. 1973 21

Vitti, G. E.—*Recent Experimental Results on Gasification and Combustion of Low BTU Gas for Gas Turbines.* (W. B. Crouch, W. B. Schlenger, and R. D. Klapatch) ..... Apr. 1974 32

Vogelsang, C. W.—*Control of Particulate and SO_2 Emissions from an Industrial Boiler Plant.* (B. Quillman) ..... Oct. 1973 35

Wagner, H.—*Development Trends in En-*

ergy Consumption and Energy Generation in the Chemical Industry ..... Sept. 1973 18
Waid, Donald E.—*How to Design Air Pollution Control Equipment that Will Not Become Obsolete* ..... Feb. 1974 4
Walker, J. L.—*An Experimental Study of the Competition between NTA and Precipitating Anions for Calcium and Magnesium*, Amer. Pwr. Conf. (J. R. Stephens) ..... Aug. 1973 20
Ward, John E.—*Nuclear Plant Standardization—Boon or Bane?*, Amer. Pwr. Conf. ..... Aug. 1973 20
Weaver, F. L.—*The Utility Boiler-Feed Pump Design of a High Energy Package.* (A. S. Gertz) ..... May 1974 30
Weber, J.—*Corrosion and Deposits in Cooling Systems—Their Causes and Prevention* ..... Dec. 1973 31
Weldon, R.—*A New Type of Boiler Feed Pump for 660 Mw Electricity Generating Sets in England* ..... July 1973 6
Williams, G. T.—*Combustion Noise*, (F. E. J. Briffa and C. J. Clark) ..... Mar. 1974 27
Williamson, R. B.—*Nuclear Turbine Operating Experiences*, Amer. Pwr. Conf. ..... Aug. 1973 15
Willson, Jr., E. J.—*Repowering: An Economic Alternate for Meeting Mid-Range Power Requirements* ..... July 1973 21
Wilson, W. B.—*The Role of Gas and Steam Turbines To Reduce Industrial Plant Energy Costs.* (W. J. Hefner) .... Nov. 1973 32
Wilson, W. B.—*Economic Selection of Plant Cycles and Fuels for Gas Turbines.* (W. J. Hefner) ..... Apr. 1974 7
Wittner, B. R.—*Offshore Application of Gas Turbine Powered Prepackaged Total Energy Systems*, Amer. Pwr. Conf. (R. E. Culp) ..... Sept. 1973 24
Wolfe, E. J.—*Utilization of Power Plant Heat.* (J. E. Funnell) ..... May 1974 4
Yaworsky, Y. J.—*Complete Automation for Combined Cycle Operation*, Amer. Pwr. Conf. (W. W. Mikol) ..... Sept. 1973 25
Young, K. G.—*The Treatment and Reuse of Power Generation Waste Waters*, Amer. Pwr. Conf. (T. M. Fosberg) ..... Sept. 1973 28
Zanyk, J. P.—*A Case History on the Application and Operation of Gas Turbines and Waste Heat Boilers in a Total Energy Cycle for a Major Chemical Manufacturing Complex* ..... Apr. 1974 17
Zerna, W.—*Modern Design of Thermal Power Plants* ..... Sept. 1973 35
Zitzow, Uwe—*Experiments in MHD Power Generation with Coal and Liquid Fuels*, Amer. Pwr. Conf. (J. B. Dicks, R. V. Shanklin, III, and L. W. Crawford) .. Sept. 1973 33

CLASSIFIED

Air Pollution

Application of NO_x Control Technology to Power Boilers, *Amer. Power Conf.* By A. H. Rawdon and S. A. Johnson ..... Sept. 1973 29
Combustion Noise. By F. E. J. Briffa, C. J. Clark and G. T. Williams ..... March 1974 27
Control of Particulate And SO_2 Emissions From An Industrial Boiler Plant. By C. W. Vogelsang and B. Quillman ..... Oct. 1973 35
Controlling Emissions From Fossil-Fueled Power Plants. By E. M. Powell and R. C. Ulmer ..... Jan. 1974 24
Environment—for People?, *Amer. Power Conf.* By F. M. Swengel ..... Sept. 1973 27
Experience In the Disposal And Utilization of Sludge From Lime-Limestone Scrubbing Processes. By W. C. Taylor ..... Oct. 1973 15
How To Design Air Pollution Control Equipment That Will Not Become Obsolete. By Donald E. Waid ..... Feb. 1974 4
NO_x Emissions From Industrial Boilers: Potential Control Methods. By C. W. Siegmund and D. W. Turner ..... Oct. 1973 24
The Physiological Responses to SO_2, SO_3, Fly Ash and Their Mixtures, *Amer. Power Conf.* By W. M. Busey and T. T. Frankenberg ..... Sept. 1973 28
Progress Report On Sulfur Dioxide. By Alf Grennard and F. Fraser Ross ..... Jan. 1974 4
The Use Of A Self-Cleaning, Low-Cost Dilution System In The Conditioning Of Flue Gas For Unattended SO_2 Or NO_x Monitoring. By A. J. Romano, D. W. Huszahg, J. Klein, R. Doering and L. Newman ..... May 1974 36

Combined Cycle

Complete Automation for Combined Cycle Operation, *Amer. Power Conf.* By W. W. Mikol and Y. J. Yaworsky ..... Sept. 1973 25

Cooling Towers

Cooling Towers and the Environment—An Overview, *Amer. Power Conf.* By J. I. Reisman and J. C. Ovard ..... Sept. 1973 26
Economics and Wet/Dry Cooling Towers For Utility Power Plants. By P. S. Klanian and E. G. Noyes ..... Oct. 1973 31
Plume Abatement and Water Conservation with the Wet-Dry Cooling Tower, *Amer. Power Conf.* By R. D. Landon and J. R. Houx, Jr. ..... Sept. 1973 28

Corrosion

The Chemical Control of Air Heater Corrosion and Plugging. By A. Ross and I. Kukin ..... Jan. 1974 14

Design

Control Requirements for Industrial Boilers, *Amer. Power Conf.* By M. A. Delin . Sept. 1973 31
Development Trends in Energy Consumption and Energy Generation in the Chemical Industry. By H. Wagner ..... Sept. 1973 18
Economics of Electric Power Generation Utilizing Geothermal Energy, American Power Conference. By Wilfred H. Comtois ..... July 1973 33
Esso Engineering Philosophy And Procedures For Engineering Standards. By Kalman Segal ..... March 1974 38
Furnace Vibration: Causes and Remedies. By M. Berg ..... Dec. 1973 21
Hot Gas Generator/Hot Gas Boiler—A New Combustion System For Producing Steam and Heat. By J. Bienz and H. N. Sharan ..... Nov. 1973 13
How to Fit a Packaged Boiler to Your Needs, *Amer. Power Conf.* By H. M. Rayner ..... Sept. 1973 33
Impact of OSHA Noise Standards on Industrial Plants, *Amer. Power Conf.* By K. N. Allan ..... Sept. 1973 26
Liquid-Metal MHD for Central Stations, *Amer. Power Conf.* By William E. Amend, Michael Petrick and Edward S. Pierson ..... Sept. 1973 33
Modern Design of Thermal Power Plants. By W. Zerna ..... Sept. 1973 35
Parity Factors For Comparing The Economics of Projected Power Stations. By G. Oplatka ..... March 1974 21
Renovation of Middle-Aged Power Stations. By B. Peacock ..... Nov. 1973 45
Utilization Of Power Plant Heat. By J. E. Funnell and E. J. Wolfe ..... May 1974 4

Dust Collectors

Practical Design Parameters for Hot and

Cold Electrostatic Precipitators, *Amer. Power Conf.* By Roger G. Ramsdell, Jr. Sept. 1973 34
Practical Design Parameters For Hot and Cold Electrostatic Precipitators. By R. G. Ramsdell, Jr. Oct. 1973 40

Fuels

Coal Gasification—An Alternative In Clean Energy Production. By P. R. Goodholm March 1974 6
Coal Gasification For Electric Power Generation. By Sylvester Lemezis and David H. Archer Nov. 1973 6
Coal: The Backbone of Electricity Generation? By Derek Ezra Sept. 1973 11
Coal: The Once and Future King. By Robert W. Fri Sept. 1973 8
Combustion Products Emissivity By F_E Operator. By K. A. Bueters March 1974 12
Experiments in MHD Power Generation with Coal and Liquid Fuels, *Amer. Power Conf.* By J. B. Dicks, R. V. Shanklin, III, L. W. Crawford and Uwe Zitzow Sept. 1973 33
Gasification and Desulfurization of Coal for Power Generation, *Amer. Power Conf.* By Neal P. Cochran, W. O. Montgomery, John D. Dedivitis, Robert J. Harvey, Jagdish C. Agarwal, and Sylvester Lemezis Sept. 1973 31
Offshore Deepwater Crude Oil Terminals. By John Mascenik Oct. 1973 7
Restrictions on Fuel Availability Seriously Affecting Fuel Selection Options. By G. Gould Jan. 1974 20
Solid Waste as a Utility Fuel, *Amer. Power Conf.* By G. E. Dreifke, D. L. Klumb, and J. D. Smith Sept. 1973 30
Take Out Some Pyrites. By F. Fraser Ross July 1973 16
"We Will Use Coal If the Price is Right." By Arthur Hawkins Sept. 1973 13

Gas Turbines

A Case History on the Application and Operation of Gas Turbines and Waste Heat Boilers in a Total Energy Cycle for a Major Chemical Manufacturing Complex. By J. P. Zanyk Apr. 1974 17
A 125-MW Unfired Combined Cycle Electric Generating Unit from Concept to Operation. By W. J. O'Donnell and P. J. Schwalje Apr. 1974 23
A Practical Approach to Gas Turbine Maintenance. By P. G. Donahoe, Jr. Apr. 1974 44
Direct Combustion of High Sulfur Coal Using Today's Gas Turbines, *Amer. Power Conf.* By Dale A. Furlong Sept. 1973 25
Economic Selection of Plant Cycles and Fuels for Gas Turbines. By W. B. Wilson and W. J. Hefner Apr. 1974 7
Experiences With Gas Turbines Burning Non-Refined Fuel Oils. By J. Frieder, P. C. Felix and H. J. Hess May 1974 18
Gas Turbines With Heat Exchanger and Water Injection In the Compressed Air. By N. Gasparovic and D. Stapersma Dec. 1973 6
Offshore Application of Gas Turbine Powered Prepackaged Total Energy Systems, *Amer. Power Conf.* By B. R. Wittner and R. E. Culp Sept. 1973 24
Recent Experimental Results on Gasification and Combustion of Low BTU Gas for Gas Turbines. By W. B. Crouch, W. B. Schlenger, R. D. Klapatch and G. E. Vitti Apr. 1974 32
Repowering: An Economic Alternate For Meeting Mid-Range Power Requirements. By E. J. Willson, Jr. July 1973 21
The Role of Gas and Steam Turbines To Reduce Industrial Plant Energy Costs. By W. B. Wilson and W. J. Hefner Nov. 1973 32
Total Energy Systems for Paper Mills. By D. Frei and H. L. Holik Apr. 1974 39

Incineration

Planning Criteria For Refuse Incinerator Systems. By S. Helmenstein and F. Martin May 1974 11.

Installation

American Electric Power's 835 Mw Boiler Series, *Amer. Power Conf.* By J. E. Dolan and W. D. Stevens July 1973 34
Current Status of Fort St. Vrain Startup Program, *Amer. Power Conf.* By F. E. Swart and R. D. Phelps July 1973 34
Pickering Power Station Reactors and Turbine-generators Design Features and Initial Operating Experience, *Amer. Power Conf.* W. G. Morison, N. C. Parsons and R. Hawley July 1973 35
Sherburne County Generating Plant, *Amer. Power Conf.* By J. E. Kettner, R. M. Butcher, and J. G. Singer July 1973 33

Instrumentation

An Application of An Oil In Water Monitor. By John Rosso and R. A. Depperman Nov. 1973 29

Nuclear Energy

Desigr Concept for an Underground Nuclear Generating Station at a Costal Urban Site, *Amer. Power Conf.* By David J. Fogarty, Bruce L. Laverty, Harvey F. Brush, and Darrell W. Halligan July 1973 38
Development of a GE-BWR Startup Program, *Amer. Power Conf.* By R. O. Hurd and L. F. Rubino Aug. 1973 17
Effects Of Siting And Load Variations For a 650MW Nuclear Station With Air Condenser. By J. H. Potter Dec. 1973 17
Enrico Fermi Unit 2-Condenser Off-Gas System, *Amer. Power Conf.* By Larry E. Schuerman, Lothar Sack, and J. L. Schanz July 1973 37
High Rate Deep Bed Demineralization Is Today's Best Solution To Nuclear Power. By G. J. Crits June 1974 33
High Temperature Gas-cooled Reactor Development outside the United States—A Manufacturer's View, *Amer. Power Conf.* By A. S. Schwartz, A. J. Goodjohn, and P. U. Fisher Aug. 1973 17
How Ion Exchange Can Help Remove Radwaste Roadblocks to Nuclear Power. By L.L. Olejar June 1974 39
LMFBR Modular Steam Generator Test Results, *Amer. Power Conf.* By J. S. McDonald, W. S. DeBear, and R. B. Harty Aug. 1973 18
Nuclear Industry's 20 Years—A Chronology June 1974 12
Nuclear Plant Standardization—Boon or Bane?, *Amer. Power Conf.* By John E. Ward Aug. 1973 20
Nuclear Turbine Operating Experiences, *Amer. Power Conf.* By R. B. Williamson Aug. 1973 15
Operating Experience With Valves In Nuclear Power Plants. By K. H. Arriens Feb. 1974 31
Performance of Large Nuclear Turbines, *Amer. Power Conf.* By R. C. Spencer and E. H. Miller Aug. 1973 24
Pre-service and In-service Testing of Nuclear Reactor Coolant Systems, *Amer. Power Conf.* By Michael S. Turbak July 1973 38
Progress Toward the Commercial LMFBR. By P. Murray and M. W. Dyos June 1974 26
Reactor Safety: Real Probabilities. By Norman Rasmussen June 1974 8
Realizing the Potential of the Breeder, *Amer. Power Conf.* By L. A. Feathers Aug. 1973 31
Siting, Design and Licensing Considerations for the Atlantic Generating Station, *Amer. Power Conf.* By Muzaffer Kehnemuyi and Roger C. Nichols Aug. 1973 16
Status of Nuclear Steam Supply System Design for the Liquid Metal Fast Breeder Reactor Demonstration Plant, *Amer. Power Conf.* By Joseph Kenney Aug. 1973 16
Status and Safety Aspects of the 300 MW(e) GCFR Demonstration Plant*, *Amer. Power Conf.* By S. J. Milioti and J. A. Larrimore Aug. 1973 19

Stop Shrink and Swell Oscillations In The Nuclear Power Plant. By Philip Foreman ... June 1974 30

System-80 Combustion Engineering's Standard 3800 Mwt PWR. By F. Bevilacgua and J. F. Gibbons ... June 1974 14

Operating Experience

The Early Detection of Mill Fires by Monitoring for Carbon Monoxide. By C. Birkby, J. Brown and P. J. Street ... Aug. 1973 38

Maine Yankee Startup and Initial Operation, *Amer. Power Conf.* By J. D. LeBlanc and J. F. Gibbons ... July 1973 37

Modern Soothlower Application And Operating Practices On Larger Coal-Fired Boilers. By J. T. Di Carlo ... Jan. 1974 10

Organization, Engineering and Constructions of Large Power Projects. By Harvey F. Brush ... July 1973 29

Preliminary Operation of TVA's Cumberland Steam Plant, *Amer. Power Conf.* By E. Floyd Thomas, W. Hossli, N. Krick, M. Salm, Z. S. Stys, and E. M. Griffin ... July 1973 36

Steam Vs Air for Sootblowing. By R. W. Foster ... Aug. 1973 36

Pumps

A New Type of Boiler Feed Pump For 660 Mw Electricity Generating Sets In England. By R. Weldon ... July 1973 6

Feed and Condensate Pumps In Nuclear Power Stations. By Chr. Sturzinger ... Aug. 1973 6

Steam Power Plant Clinic—Part 77. By I. J. Karassik and J. E. C. Valentin, Jr. ... Sept. 1973 15

... Jan. 1974 35

Steam Power Plant Clinic—Part 78. By I. J. Karassik ... March 1974 19

The Utility Boiler-Feed Pump Design Of A High Energy Package. By A. S. Gertz and F. L. Weaver ... May 1974 30

Steam Turbine

Bypass Stations for Better Coordination between Steam Turbine and Steam Generator Operation, *Amer. Power Conf.* By Dr. -Ing. Peter Martin and Dipl.-Ing. Ludwig Holly ... July 1973 32

Research and development for large steam turbines, *Amer. Power Conf.* By H. R. M. Craig and Dr. D. Kalderon ... July 1973 32

Waste Materials

Closing the Refuse Power Cycle. By J. F. Mullen and J. G. Singer ... Feb. 1974 20

Fluid Bed Pyrolyses Of Solid Waste Materials. By Dr. Richard C. Bailie and Robert S. Burton III ... Feb. 1973 13

Water Conditioning

The Chemical Cleaning Program for Browns Ferry Nuclear Plant, *Amer. Power Conf.* By Carl Cain, Jr., Joseph Greco, and D. L. Paul ... Aug. 1973 23

Corrosion And Deposits in Cooling Systems—Their Causes and Prevention. By J. Weber ... Dec. 1973 31

Current Practices—Factors Influencing Need for Chemical Cleaning Boilers, *Amer. Power Conf.* By I. B. Dick, J. S. Beecher, R. W. Lane, and L. H. Vaughan ... Aug. 1973 21

An Experimental Study of the Competition between NTA and Precipitating Anions for Calcium and Magnesium, *Amer. Power Conf.* By J. L. Walker and J. R. Stephens ... Aug. 1973 20

Operational Chemical Cleaning of Once-Through Boilers By A Simplified Method. By A. P. Mamet, G. I. Aleinikov, V. A. Taratuta, V. A. Peskov, and G. K. Drobot ... Nov. 1973 21

Preoperational Water Chemistry Control for Nuclear Steam Supply Systems, *Amer. Power Conf.* By R. R. Beach, M. J. Bell, J. H. Hicks, and F. J. Pocock ... Aug. 1973 22

Reverse Osmosis Water Treatment at Harrison Power Station, *Amer. Power Conf.* By Vincent T. Burns, Jr. ... Aug. 1973 22

Selection and Evaluation of Advanced Water Treatment Systems. By Philip Grant ... Nov. 1973 42

Solving Unusual Problems in Industrial Boiler Water Treatment, *Amer. Power Conf.* By Irvin J. Cotton ... Aug. 1973 22

The Treatment and Reuse of Power Generation Waste Waters, *Amer. Power Conf.* By K. G. Young and T. M. Fosberg ... Sept. 1973 28